

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number  
**WO 2005/084127 A3**

(51) International Patent Classification<sup>7</sup>: **A61B 17/04**

(21) International Application Number:  
PCT/IL2005/000254

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/549,553 4 March 2004 (04.03.2004) US

(71) Applicants and

(72) Inventors: **OREN, Ran** [IL/IL]; Kibbutz Gaaton, 25130  
Doar Na Oshrat (IL). **MOOR, Dan** [IL/IL]; Kibbutz Gaaton,  
25130 Doar Na Oshrat (IL).

(74) Agent: **G.E. EHRLICH (1995) LTD.**; 11 Menachem Be-  
gin Street, 52 521 Ramat Gan (IL).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,  
ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

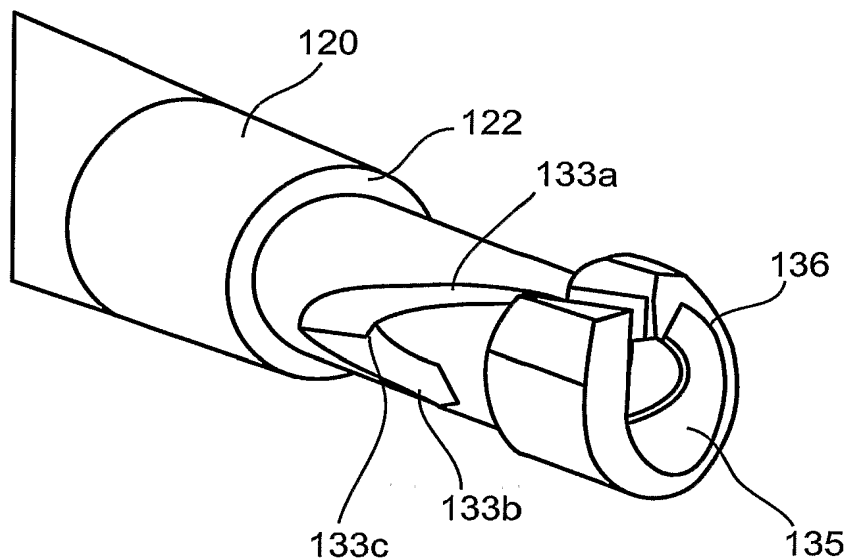
**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

(88) Date of publication of the international search report:  
23 March 2006

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: SUTURE MANIPULATING AND CUTTING IMPLEMENT



(57) Abstract: An implement for manipulating a knotted suture (150) during a surgical procedure, includes an elongated shaft (130) having a proximal end engageable by the user for manipulating the instrument, and a distal end engageable with the knotted suture (150) to be manipulated. The distal end (132) of the elongated shaft (13) has an end face (134) formed with a recess (135) for receiving the knot (151) of the suture. The distal end (132) of the elongated shaft (130) is formed with an open slot (133) starting from a location spaced from the end face (134) and leading to the recess (135) in the end face, such as to enable the knotted suture (150) to be introduced into the slot (133) and the recess (135) by effecting a sidewise movement. The implement further includes a tubular cutter member (120) enclosing the elongated shaft (130)

and formed with an annular cutting edge (122) engageable with a suture in the open slot (133) of the shaft (130) upon movement of the elongated shaft (130) with respect to the tubular cutter member (120), or by vice-versa.

WO 2005/084127 A3